

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

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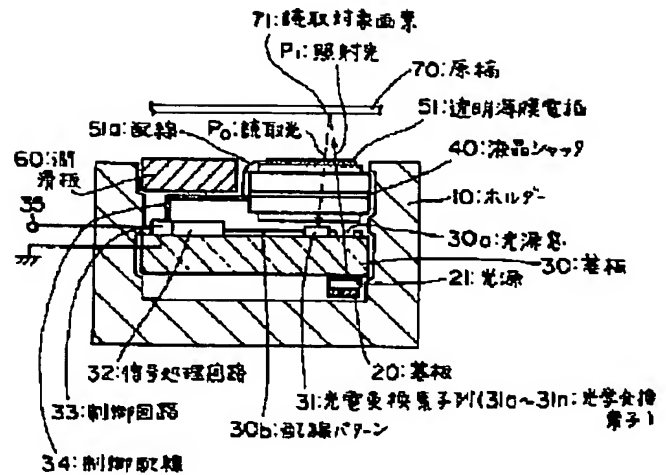
APPLICATION DATE : 31-08-94  
APPLICATION NUMBER : 06230649

APPLICANT : NEC CORP;

INVENTOR : KONDO MAKOTO;

INT.CL. : H04N 1/028

TITLE : CONTACT TYPE IMAGE SENSOR



ABSTRACT : PURPOSE: To prevent a photoelectric converting element from being degraded on the shelf to simplify the device and to prevent malfunction caused by static electricity.

CONSTITUTION: An original 70 is irradiated with light from a light source 21, the light reflected from this original 70 is made incident to a photoelectric converting element line 31 formed by an amorphous silicon semiconductor and the original is read by performing photo-electric conversion. Concerning such a contact type image sensor, this image sensor is provided with a liquid crystal shutter 40 arranged on the optical path of the photoelectric converting element line 31, turned into a light shielding state for shielding the light incident to the photoelectric converting element line 31 when no power is supplied, and turned into a light transmitting state for making the light incident to the photoelectric converting element line 31 when power is supplied and a transparent thin film electrode 51 provided on the surface of this liquid crystal shutter 40 in contact with the original 70 and grounded to GND.

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